

AMENDMENTS TO THE CLAIMS

1. (Currently amended): A method for securing radio transmissions utilizing a conventional radio, said method comprising the steps of:

providing a conventional radio, said conventional radio being incapable of encrypting or decrypting signals, said radio including a conventional microphone port that is configured to be coupled to a conventional microphone and a conventional speaker port that is configured to be coupled to a conventional speaker, said radio remaining unmodified;

providing a computer system coupled between a microphone and said radio, wherein inputs into said radio are received first by said computer system, said computer system being separate and apart from said radio;

receiving, within said computer system, an input analog signal from said microphone;

encrypting, within said computer system, said input analog signal utilizing public key encryption;

passing said encrypted input analog signal from said computer system to said microphone port that is included within said unmodified radio; and

transmitting said encrypted input analog signal utilizing said unmodified radio, wherein radio transmissions from said radio are secured.

2. (Original): The method according to claim 1, further comprising the step of encrypting, within said computer system, said input analog signal utilizing a key pair, said key pair including a public key and a private key.

3. (Original): The method according to claim 2, further comprising the step of encrypting, within said computer system, said input analog signal utilizing said public key.

4. (Currently amended): The method according to claim 1, further comprising the steps of:

receiving, within a first [[Java]] application executing within said computer system, said input analog signal from said microphone;

encrypting, utilizing said [[Java]] first application, said input analog signal utilizing public key encryption;

passing said encrypted input analog signal from said [[Java]] first application to said microphone port of said unmodified radio.

5. (Currently amended): The method according to claim 4 [[1]], further comprising:

receiving, by said computer system from said microphone, said input analog signal;

converting, by a microphone driver that is executing within said computer system, said input analog signal to a file, said file being in a standard voice file format;

constantly monitoring, by said first application, inputs received from said microphone;

detecting, by said first application, a receipt of said file;

in response to a detection by said first application of said receipt of said file, encrypting, by said first application, said file utilizing a public key that is part of a public key/private key key pair assigned to said computer system;

passing, by said first application, said encrypted file to said microphone port that is included within said radio; and

transmitting said encrypted file utilizing said unmodified radio.

the step of passing said encrypted analog signal from said computer system to a microphone port included in said radio.

6. (Currently amended): The method according to claim 1, further comprising the steps of:

providing a second conventional radio, said second conventional radio being incapable of encrypting or decrypting signals, said second radio including a second microphone port that is configured to be coupled to a second conventional microphone and a second speaker port that is configured to be coupled to a second conventional speaker, said second radio remaining unmodified;

providing a second computer system coupled between [[a]] said second speaker and said second unmodified radio, wherein outputs from said second radio are received first by said second computer system before being output to said second speaker, said second computer system being separate and apart from said second radio;

receiving, within said second computer system, an encrypted output from said second [[a]] speaker port included within said unmodified second radio;

decrypting, within said second computer system, said encrypted output utilizing public key encryption; and

outputting said decrypted output from said second computer system to said second speaker.

7. (Currently amended): The method according to claim 6, further comprising: constantly monitoring, by a second application that is executing within said second computer system, outputs from said second speaker port;

receiving, by said second application, said encrypted output from said second speaker port;

decrypting, by said second application, said encrypted output utilizing public key encryption; and

passing, by said second application, said decrypted output from said second application to said second speaker.

~~the step of encrypting, within said computer system, said input analog signal utilizing a key pair, said key pair including a public key and a private key.~~

8. (Canceled)

9. (Currently amended): The method according to claim 7 [[8]], further comprising the steps of:

obtaining, by said second computer system, [[said]] a private key of said computer system; and

decrypting said encrypted output input analog signal utilizing said private key.

10. (Original): The method according to claim 9, further comprising the step of exchanging said private key between said computer system and said second computer system prior to transmissions of radio signals.

11. (Currently amended): A system for securing radio transmissions utilizing a conventional radio, comprising:

a conventional radio, said conventional radio being incapable of encrypting or decrypting signals, said radio including a conventional microphone port that is configured to be coupled to a conventional microphone and a conventional speaker port that is configured to be coupled to a conventional speaker, said radio remaining unmodified;

a computer system coupled between a microphone and said radio, wherein inputs into said radio are received first by said computer system, said computer system being separate and apart from said radio;

 said computer system for receiving an input analog signal from said microphone;

 said computer system for encrypting said input analog signal utilizing public key encryption;

 said computer system for passing said encrypted input analog signal from said computer system to said microphone port that is included within said unmodified radio; and

 said unmodified radio for transmitting said encrypted input analog signal, wherein radio transmissions from said radio are secured.

12. (Original): The system according to claim 11, further comprising said computer system for encrypting said input analog signal utilizing a key pair, said key pair including a public key and a private key.

13. (Original): The system according to claim 12, further comprising said computer system for encrypting said input analog signal utilizing said public key.

14. (Currently amended): The system according to claim 11, further comprising:
[[Java]] a first application executing within said computer system for receiving
said input analog signal from said microphone;
said first [[Java]] application for encrypting said input analog signal utilizing
public key encryption;
said [[Java]] first application for passing said encrypted input analog signal from
said first [[Java]] application to said microphone port of said unmodified radio.

15. (Currently amended): The system according to claim 14 [[11]], further
comprising:
said computer system receiving from said microphone said input analog signal;
a microphone driver that is executing within said computer system converting
said input analog signal to a file, said file being in a standard voice file format;
said first application constantly monitoring inputs received from said microphone;
said first application detecting a receipt of said file;
in response to a detection by said first application of said receipt of said file, said
first application encrypting said file utilizing a public key that is part of a public
key/private key key pair assigned to said computer system;
said first application passing said encrypted file to said microphone port that is
included within said radio; and
said unmodified radio transmitting said encrypted file.
~~said computer system for passing said encrypted analog signal from said computer~~
~~system to a microphone port included in said radio.~~

16. (Currently amended): The system according to claim 11, further comprising:
a second conventional radio, said second conventional radio being incapable of
encrypting or decrypting signals, said second radio including a second microphone port
that is configured to be coupled to a second conventional microphone and a second
speaker port that is configured to be coupled to a second conventional speaker, said
second radio remaining unmodified;

a second computer system coupled between [[a]] said second speaker and said second unmodified radio, wherein outputs from said second radio are received first by said second computer system before being output to said second speaker, said second computer system being separate and apart from said second radio;

said second computer system for receiving an encrypted output from [[a]] said second speaker port included within said second unmodified radio;

said second computer system for decrypting said encrypted output utilizing public key encryption; and

said second computer system for outputting said decrypted output from said second computer system to said second speaker.

17. (Currently amended): The system according to claim 16, further comprising:
a second application that is executing within said second computer system
constantly monitoring outputs from said second speaker port;

said second application receiving said encrypted output from said second speaker port;

said second application decrypting said encrypted output utilizing public key
encryption; and

said second application passing said decrypted output from said second
application to said second speaker.

~~said computer system for encrypting said input analog signal utilizing a key pair, said key pair including a public key and a private key.~~

18. (Canceled)

19. (Currently amended): The system according to claim 17 [[18]], further comprising:

said second computer system for obtaining [[said]] a private key of said computer system; and

said second computer system for decrypting said encrypted output input analog
signal utilizing said private key.

20. (Original): The system according to claim 19, further comprising said computer system for exchanging said private key between said computer system and said second computer system prior to transmissions of radio signals.

21. (Currently amended): A computer program product executing within a data processing system for securing radio transmissions utilizing a conventional radio, said computer program product comprising the data processing system implemented steps of:

instruction means for providing a conventional radio, said conventional radio being incapable of encrypting or decrypting signals, said radio including a conventional microphone port that is configured to be coupled to a conventional microphone and a conventional speaker port that is configured to be coupled to a conventional speaker, said radio remaining unmodified;

instruction means for providing a computer system coupled between a microphone and said radio, wherein inputs into said radio are received first by said computer system, said computer system being separate and apart from said radio;

instruction means for receiving, within said computer system, an input analog signal from said microphone;

instruction means for encrypting, within said computer system, said input analog signal utilizing public key encryption;

instruction means for passing said encrypted input analog signal from said computer system to said microphone port that is included within said unmodified radio; and

instruction means for transmitting said encrypted input analog signal utilizing said unmodified radio, wherein radio transmissions from said radio are secured.

22. (Original): The product according to claim 21, further comprising instruction means for encrypting, within said computer system, said input analog signal utilizing a key pair, said key pair including a public key and a private key.

23. (Original): The product according to claim 22, further comprising instruction means for encrypting, within said computer system, said input analog signal utilizing said public key.

24. (Currently amended): The product according to claim 21, further comprising:
instruction means for receiving, within a first [[Java]] application executing within said computer system, said input analog signal from said microphone;
instruction means for encrypting, utilizing said first [[Java]] application, said input analog signal utilizing public key encryption;
instruction means for passing said encrypted input analog signal from said first [[Java]] application to said microphone port of said unmodified radio.

25. (Currently amended): The product according to claim 24 [[21]], further comprising:
instruction means for receiving, by said computer system from said microphone, said input analog signal;
instruction means for converting, by a microphone driver that is executing within said computer system, said input analog signal to a file, said file being in a standard voice file format;
instruction means for constantly monitoring, by said first application, inputs received from said microphone;
instruction means for detecting, by said first application, a receipt of said file;
in response to a detection by said first application of said receipt of said file,
instruction means for encrypting, by said first application, said file utilizing a public key that is part of a public key/private key key pair assigned to said computer system;
instruction means for passing, by said first application, said encrypted file to said microphone port that is included within said radio; and
instruction means for transmitting said encrypted file utilizing said unmodified radio.
instruction means for passing said encrypted analog signal from said computer system to a microphone port included in said radio.

26. (Currently amended): The product according to claim 21, further comprising:
instruction means for providing a second conventional radio, said second conventional radio being incapable of encrypting or decrypting signals, said radio including a microphone port that is configured to be coupled to a conventional microphone and a speaker port that is configured to be coupled to a conventional speaker, said radio remaining unmodified;

instruction means for providing a second computer system coupled between [[a]] said second speaker and said second unmodified radio, wherein outputs from said second radio are received first by said second computer system before being output to said second speaker, said second computer system being separate and apart from said second radio;

instruction means for receiving, within said second computer system, an encrypted output from [[a]] said second speaker port included within said second unmodified radio;

instruction means for decrypting, within said second computer system, said encrypted output utilizing public key encryption; and

instruction means for outputting said decrypted output from said second computer system to said second speaker.

27. (Currently amended): The product according to claim 26, further comprising:

instruction means for constantly monitoring, by a second application that is executing within said second computer system, outputs from said second speaker port;

instruction means for receiving, by said second application, said encrypted output from said second speaker port;

instruction means for decrypting, by said second application, said encrypted output utilizing public key encryption; and

instruction means for passing, by said second application, said decrypted output from said second application to said second speaker.

instruction means for encrypting, within said computer system, said input analog signal utilizing a key pair, said key pair including a public key and a private key.

28. (Cancelled)

29. (Currently amended): The product according to claim 27 [[28]], further comprising:

instruction means for obtaining, by said second computer system, [[said]] a private key of said computer system; and

instruction means for decrypting said encrypted output input analog signal utilizing said private key.

30. (Original): The product according to claim 29, further comprising instruction means for exchanging said private key between said computer system and said second computer system prior to transmissions of radio signals.